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File 81:MIRA - Motor Industry Research 2001-2004/Dec
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Set	Items	Description
S1	4989895	ELECTRIC OR HYBRID OR INTERNAL()COMBUSTION OR EV OR HEV OR FUEL()CELL OR IC OR ICE OR BATTER??? OR SOLAR OR INSIGHT OR P-RIUS OR HYBRIDELECTRIC
S2	73969	BRAKE? ? OR BRAKING
S3	265117	AXLE? ? OR WHEEL? ? OR AXEL? ? OR SHAFT? ? OR AXLETREE? ?
S4	30039574	TWO OR 2 OR SECOND OR 2ND OR DUPLICATE? ? OR DOUBLE? ? OR -TWO FOLD OR DUAL OR PAIR OR FIRST OR 1ST OR SEPARATE OR DISCRETE OR DISTINCT OR ANOTHER OR DIFFERENT OR OTHER OR ADD?? OR ADDITIONAL
S5	7448364	FRICTION OR DRAG OR RESISTANCE OR ABRASION OR DRUM? ? OR DISC? ? OR DISK? ? OR BLOCK? ? OR BAND? ? OR SHOE? ? OR PAD OR PADS OR AIR OR HYDRAULIC OR VACUUM
S6	1783245	REGENERATI?? OR THERMAL()RESISTOR OR DISSIPAT??? (N)POWER OR (RECAPTUR??? OR RECOVER??? OR REUS??? OR RE() (USE OR USES OR USING OR CLAIM???) OR RECLAIM???) (3W)ENERGY OR DYNAMIC OR REC-

OPERATIVE OR ELECTROREGENERATI??

S7	30252	S3(5N)S4
S8	16189	S2(5N)S5
S9	6394	S2(5N)S6
S10	8	S1(S)S7(S)S8(S)S9
S11	19	S7(S)S8(S)S9
S12	32	S7 AND S8 AND S9
S13	12	S1 AND S12
S14	20	S11 OR S13
S15	19	S14 NOT PY>2001
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S17	16	RD (unique items)

17/3,K/6 (Item 6 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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00579079 E.I. Monthly No: EI7611073518 E.I. Yearly No: EI76022306
Title: LET THE MOTOR DO ITS OWN BRAKING.
Author: Girard, M. J.
Corporate Source: Westinghouse Electr Corp, Worcester, Mass
Source: Plant Engineering (Barrington, Illinois) v 30 n 13 Jun 24 1976 p
89-91
Publication Year: 1976
CODEN: PLENAV ISSN: 0032-082X
Language: ENGLISH

Abstract: *Electric* motors can be braked by either of two basic methods. One method requires application of an external, *friction*-type *brake* connected to the motor *shaft*. The *other* method utilizes the electrical characteristics of the motor. Although a motor is defined as something that only imparts motion, an *electric* motor can also be used for retarding the motion of the driven load. This use...

...called electrical braking. The three methods for electrically braking a motor are known as plugging, *regenerative* *braking*, and *dynamic* *braking*. Each method has certain advantages, disadvantages, and limitations.

Descriptors: *ELECTRIC* MOTORS...

17/3,K/11 (Item 1 from file: 103)
DIALOG(R)File 103:Energy SciTec
(c) 2004 Contains copyrighted material. All rts. reserv.

03764269 NEDO-94-920337; EDB-95-008037
Title: High performance AC/DC *dual* model 4 *axle* type inverter
controlled locomotive
Original Title: Koseino kochoku ryoyo 4 jiku inverter seigyo denki kikansha
Author(s): Yamaguchi, H.; Ihara, H.; Endo, N.; Inaka, S. (Hitachi, Ltd., Tokyo (Japan))
Source: Hitachi Hyoron (Japan) v 76:5. Coden: HIHYA4 ISSN: 0367-5874
Publication Date: 1 May 1994
p 15-20
Language: Japanese

Title: High performance AC/DC *dual* model 4 *axle* type inverter
controlled locomotive

Abstract: An AC/DC *dual* mode 4 *axle* 4000 kW type inverter controlled *electric* locomotive was developed. This improved the traction performance and enabled the use of both AC...

...is PWM (Pulse Width Modulation) control based on GTO (Gate Turn Off) thyristor. For the *air* *brakes*, electrical command type was adopted, and the electrical *brakes* are equipped with *resistance* *dynamic* *braking*. The main parts of the vehicle body are made of high tensile steel and by...

...Major Descriptors: LOCOMOTIVES -- *ELECTRIC* RAILWAYS...

17/AA,AN,TI/1 (Item 1 from file: 8)
DIALOG(R)File 8:(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

04778007

E.I. No: EIP97083779373

Title: Isobar enhances *disc* *brake* performance

17/AA,AN,TI/2 (Item 2 from file: 8)
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04106651

E.I. No: EIP95032618883

Title: Quantification of the slip resistance of floor surfaces at industrial sites. part II. choice of optimal measurement conditions

17/AA,AN,TI/3 (Item 3 from file: 8)
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02704039

E.I. Monthly No: EI8902012489

Title: Neue stadtbahn-gelenktriebwagen fuer Pittsburgh, PA, USA.

Title: New articulated light rail vehicles for Pittsburgh, PA, USA.

17/AA,AN,TI/4 (Item 4 from file: 8)
DIALOG(R)File 8:(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

02088595

E.I. Monthly No: EIM8605-026895

Title: MANUAL WHEELCHAIR WITH DYNAMIC BRAKING.

17/AA,AN,TI/5 (Item 5 from file: 8)
DIALOG(R)File 8:(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

00643338

E.I. Monthly No: EI7708060102

Title: Braking Equipment for the Future Trainsets.

Title: LES EQUIPEMENTS DE FREINAGE DES FUTURES RAMES.

17/AA,AN,TI/6 (Item 6 from file: 8)
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00579079

E.I. Monthly No: EI7611073518

Title: LET THE MOTOR DO ITS OWN BRAKING.

17/AA,AN,TI/7 (Item 1 from file: 2)
DIALOG(R)File 2:(c) 2003 Institution of Electrical Engineers. All rts. reserv.

Title: New light rail vehicles for Pittsburgh, PA, USA

17/AA,AN,TI/8 (Item 2 from file: 2)
DIALOG(R)File 2:(c) 2003 Institution of Electrical Engineers. All rts. reserv.

Title: T 446.3 diesel-*electric* locomotive for mountain railways

17/AA,AN,TI/9 (Item 3 from file: 2)
DIALOG(R)File 2:(c) 2003 Institution of Electrical Engineers. All rts.
reserv.

Title: Turbine/*electric* system powers huge off-road vehicle

17/AA,AN,TI/10 (Item 1 from file: 94)
DIALOG(R)File 94:(c)2004 Japan Science and Tech Corp(JST). All rts.
reserv.

03523782 JICST ACCESSION NUMBER: 98A0114547
Running test of ultra-low floor type light rail rolling stock.

17/AA,AN,TI/11 (Item 1 from file: 103)
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03764269 NEDO-94-920337; EDB-95-008037
OSTI Permanent No.: 95001298424
Title: High performance AC/DC *dual* model 4 *axle* type inverter
controlled locomotive
Original Title: Koseino kochoku ryoyo 4 jiku inverter seigyo denki kikansha

17/AA,AN,TI/12 (Item 2 from file: 103)
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02235093 DE-88-012065; EDB-88-177836
Title: Braking systems for high-speed rail vehicles
Title: Research and new technologies in transportation. Vol. *2*.
High-speed railway systems: *Wheel*-on-rail technology
Original Title: Forschung und neue Technologien im Verkehr. Bd. 2.
Schnellbahnsysteme: Rad/Schiene-Technologie

17/AA,AN,TI/13 (Item 3 from file: 103)
DIALOG(R)File 103:(c) 2004 Contains copyrighted material. All rts. reserv.

00878909 EDB-82-053751
Title: Advances in measuring techniques for evaluating safety conditions of
shaft hoisting equipment

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00241329
TITLE: BART SETS A \$26-MILLION HEART IN MOTION AT THE TWO THIRDS MARK, THE
PACE QUICKENS TODAY'S MOCK-UP WILL BE A PROTOTYPE BY AUGUST

17/AA,AN,TI/15 (Item 1 from file: 81)
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162341
Mazda unveils MX Sport Tourer at Geneva Motor Show

17/AA,AN,TI/16 (Item 2 from file: 81)
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37986
New City Bus Concepts - Duo Buses, Low-Floor Dieselelectric Buses With
Electric Single-Wheel Drive